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1 Information dissemination: Decentralized discovery of free parking places   ■

Murat Caliskan, Daniel Graupner, Martin Mauve

September 2006 **Proceedings of the 3rd international workshop on Vehicular ad hoc networks VANET '06**

Publisher: ACM Press

Full text available: 📄 pdf(863.22 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes a topology independent, scalable information dissemination algorithm for spatio-temporal traffic information such as parking place availability using vehicular ad hoc networks (VANET) based on Wireless-LAN IEEE 802.11.The algorithm uses periodic broadcasts for information dissemination. Broadcast redundancy is minimized by evaluation of application layer information and aggregation. Due to the spatio-temporal characteristics of parking place information, the spatial distribut ...

Keywords: VANET applications, parking place search, vehicular ad hoc networks

2 Circuit challenges for scaled technologies: Experimental measurement of a novel   ■

power gating structure with intermediate power saving mode

Suhwan Kim, Stephen V. Kosonocky, Daniel R. Knebel, Kevin Stawiasz

August 2004 **Proceedings of the 2004 international symposium on Low power electronics and design ISLPED '04**

Publisher: ACM Press

Full text available: 📄 pdf(379.25 KB)   Additional Information: full citation, abstract, references, citings, index terms

A novel power gating structure is proposed for low-power, high-performance VLSI. This power gating structure supports an intermediate power saving mode as well as a traditional power cut-off mode. To evaluate our power gating structure, we design and fabricate three different macros in 0.13 um CMOS bulk technology. Our measurement results show that the additional intermediate power-mode allows us to cover various power-performance trade-off regimes, compared to conventional power gating structur ...

Keywords: clock gating, ground bounce, inductive noise, power gating, system-on-a-chip (SOC) design, wake-up latency

3   ■

Mesh networks: Measurement driven deployment of a two-tier urban mesh access

network

Joseph Camp, Joshua Robinson, Christopher Steger, Edward Knightly

June 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**

Publisher: ACM Press

Full text available: pdf(735.65 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Multihop wireless mesh networks can provide Internet access over a wide area with minimal infrastructure expenditure. In this work, we present a measurement driven deployment strategy and a data-driven model to study the impact of design and topology decisions on network-wide performance and cost. We perform extensive measurements in a two-tier urban scenario to characterize the propagation environment and correlate received signal strength with application layer throughput. We find that well-kn ...

Keywords: access network, deployment, fairness, measurement-driven, mesh, pathloss, placement, two-tier architecture, urban, wireless

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4   Algorithms: Predicting resource usage and estimation accuracy in an IP flow measurement collection infrastructure

Nick Duffield, Carsten Lund

October 2003 **Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement IMC '03**

Publisher: ACM Press

Full text available: pdf(362.83 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper describes a measurement infrastructure used to collect detailed IP traffic measurements from an IP backbone. Usage, i.e, bytes transmitted, is determined from raw NetFlow records generated by the backbone routers. The amount of raw data is immense. Two types of data sampling in order to manage data volumes: (i) (packet) sampled NetFlow in the routers; (ii) size-dependent sampling of NetFlow records. Furthermore, dropping of NetFlow records in transmission can be regarded as an uncontr ...

Keywords: bandwidth, estimation, sampling, variance

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5   The Clustered AGgregation (CAG) technique leveraging spatial and temporal correlations in wireless sensor networks

Sunhee Yoon, Cyrus Shahabi

March 2007 **ACM Transactions on Sensor Networks (TOSN)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(1.93 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Sensed data in Wireless Sensor Networks (WSN) reflect the spatial and temporal correlations of physical attributes existing intrinsically in the environment. In this article, we present the Clustered AGgregation (CAG) algorithm that forms clusters of nodes sensing similar values within a given threshold (spatial correlation), and these clusters remain unchanged as long as the sensor values stay within a threshold over time (temporal correlation). With CAG, only one sensor reading per cluster ...

Keywords: In-network processing and aggregation, accuracy, approximation, clustering, energy efficiency, modeling, spatial and temporal correlations

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6   Flow sampling under hard resource constraints

Nick Duffield, Carsten Lund, Mikkel Thorup
June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems SIGMETRICS '04/Performance '04**, Volume 32 Issue 1
Publisher: ACM Press

Full text available: pdf(246.84 KB)   Additional Information: full citation, abstract, references, citings, index terms

Many network management applications use as their data traffic volumes differentiated by attributes such as IP address or port number. IP flow records are commonly collected for this purpose: these enable determination of fine-grained usage of network resources. However, the increasingly large volumes of flow statistics incur concomitant costs in the resources of the measurement infrastructure. This motivates sampling of flow records.This paper addresses sampling strategy for flow records. Recen ...

Keywords: IP flows, sampling, variance reduction

7   Distributed testing and measurement across the Atlantic packet satellite network (SATNET)
K. Seo, J. Crowcroft, P. Spilling, J. Laws, J. Leddy
August 1988 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols SIGCOMM '88**, Volume 18 Issue 4
Publisher: ACM Press
Full text available: pdf(1.42 MB)   Additional Information: full citation, abstract, references, index terms

The analysis of the test and measurement of TCP/IP performance over the Atlantic Packet Satellite Network (SATNET) is described. Both the methodology and tools as well as the results and their analysis are discussed. Because of the Internetwork nature of the environment, the tests were designed to allow the SATNET Measurement Taskforce to look at the effects of each component of the end-to-end path, e.g., local networks, gateways, SATNET, and protocol layers. Results are given for the IP se ...

8   Latency and topology: Measurement based analysis, modeling, and synthesis of the internet delay space
Bo Zhang, T. S. Eugene Ng, Animesh Nandi, Rudolf Riedi, Peter Druschel, Guohui Wang
October 2006 **Proceedings of the 6th ACM SIGCOMM on Internet measurement IMC '06**
Publisher: ACM Press
Full text available: pdf(1.64 MB)   Additional Information: full citation, abstract, references, index terms

Understanding the characteristics of the Internet delay space (i.e., the all-pairs set of static round-trip propagation delays among edge networks in the Internet) is important for the design of global-scale distributed systems. For instance, algorithms used in overlay networks are often sensitive to violations of the triangle inequality and to the growth properties within the Internet delay space. Since designers of distributed systems often rely on simulation and emulation to study design alte ...

Keywords: analysis, distributed system, internet delay space, measurement, modeling, simulation, synthesis

9   Chicago spectrum occupancy measurements & analysis and a long-term studies proposal
Mark A. McHenry, Peter A. Tenhula, Dan McCloskey, Dennis A. Roberson, Cynthia S. Hood
August 2006 **Proceedings of the first international workshop on Technology and**

policy for accessing spectrum TAPAS '06
Publisher: ACM Press
Full text available: pdf(467.89 KB)   Additional Information: full citation, abstract, references

This paper describes spectrum occupancy measurements performed in Chicago, IL in November 2005 and proposes long-term studies in multiple locations. The Chicago project consisted of deploying a high dynamic range spectrum measurement system, a data collection and processing system and conducting spectrum occupancy measurements in all bands between 30 MHz and 3,000 MHz (see Figure 1). These measurements were taken over a two-day period and are added to an existing body of data compiled in othe ...

10 Access control technology: PRIMA: policy-reduced integrity measurement architecture
Trent Jaeger, Reiner Sailer, Umesh Shankar
June 2006 **Proceedings of the eleventh ACM symposium on Access control models and technologies SACMAT '06**
Publisher: ACM Press
Full text available: pdf(228.62 KB)   Additional Information: full citation, abstract, references, index terms

We propose an integrity measurement approach based on information flow integrity,which we call the Policy-Reduced Integrity Measurement Architecture (PRIMA).The recent availability of secure hardware has made it practical for a system to measure its own integrity, such that it can generate an integrity proof for remote parties. Various approaches have been proposed,but most simply measure the loaded code and static data to approximate runtime system integrity.We find that these approaches suffer ...

Keywords: Clark-Wilson Lite integrity, information flow, remote attestation

11 Deriving traffic demands for operational IP networks: methodology and experience
Anja Feldmann, Albert Greenberg, Carsten Lund, Nick Reingold, Jennifer Rexford, Fred True
June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3
Publisher: IEEE Press
Full text available: pdf(212.92 KB)   Additional Information: full citation, abstract, references, citings, index terms

Engineering a large IP backbone network without an accurate network-wide view of the traffic demands is challenging. Shifts in user behavior, changes in routing policies, and failures of network elements can result in significant (and sudden) fluctuations in load. In this paper, we present a model of traffic demands to support traffic engineering and performance debugging of large Internet Service Provider networks. By defining a traffic demand as a volume of load originating from an ingres ...

Keywords: Internet, measurement, routing, traffic engineering

12 Battery capacity measurement and analysis using lithium coin cell battery
Sung Park, Andreas Savvides, Mani Srivastava
August 2001 **Proceedings of the 2001 international symposium on Low power electronics and design ISLPED '01**
Publisher: ACM Press
Full text available: pdf(313.01 KB)   Additional Information: full citation, references, citings, index terms

Keywords: DC/DC converter, battery, coin cell, data acquisition, embedded system, energy estimation, power estimation

13 Session 10: active measurement: Predicting and bypassing end-to-end internet service degradations

Anat Bremler-Barr, Edith Cohen, Haim Kaplan, Yishay Mansour

November 2002 **Proceedings of the 2nd ACM SIGCOMM Workshop on Internet measurment IMW '02**

Publisher: ACM Press

Full text available: pdf(1.36 MB)   Additional Information: full citation, abstract, references, citings, index terms

We study the patterns and predictability of Internet End-to-End service *degradations*, where a degradation is a significant deviation of the round trip time between a client and a server. We use simultaneous RTT measurements collected from several locations to a large representative set of Web sites and study the duration and extent of degradations. We combine these measurements with BGP cluster information to learn on the location of the cause.We evaluate a number of predictors based upon ...

14 Performance evaluation of multiple time scale TCP under self-similar traffic conditions

Kihong Park, Tsunyi Tuan

April 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(264.71 KB)   Additional Information: full citation, abstract, references, index terms

Measurements of network traffic have shown that self-similarity is a ubiquitous phenomenon spanning across diverse network environments. In previous work, we have explored the feasibility of exploiting long-range correlation structure in self-similar traffic for congestion control. We have advanced the framework of multiple time scale congestion control and shown its effectiveness at enhancing performance for rate-based feedback control. In this article, we extend the multiple time scale co ...

Keywords: TCP, congestion control, multiple time scale, network protocols, performance evaluation, self-similar traffic, simulation

15 Empirical measurements of overheads in conservative asynchronous simulations

Mary L. Bailey, Michael A. Pagels

October 1994 **ACM Transactions on Modeling and Computer Simulation (TOMACS),** Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(1.31 MB)   Additional Information: full citation, abstract, references, index terms

In order to make formal and analytic models more realistic, overheads which were previously ignored or vastly simplified must be included. We consider the feasibility of characterizing the overheads in conservative asynchronous simulations for such models, and we focus on a single communication structure (i.e., meshes) and use both multicomputer programs and a queueing network as example applications. We find that the two most important issues for modeling are to understand how to estimate ...

Keywords: conservative asynchronous simulation, discrete-event simulation, null messages, overhead measurement, parallel processing

16 Distributed virtual hosts and networks: Measurement and control

R. H. Sherman, M. G. Gable, A. W. Chung

April 1982 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the Computer Network Performance Symposium**, Volume 11 Issue 1
Publisher: ACM Press
Full text available: 🗋 pdf(486.18 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Diverse network application requirements bring about local networks of various size, degree of complexity and architecture. The purpose of this paper is to present a network protocol layer which is used to provide a homogeneous operating environment and to ensure the availability of network resources. The network layer process probes the underlying local network to discover its properties and then adapts to changing network conditions. The principle contribution of this paper is to generali ...

17 Measurements of the paging behavior of UNIX

Arvin Park, Jeffrey C. Becker
April 1991 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1991 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '91**, Volume 19 Issue 1
Publisher: ACM Press
Full text available: 🗋 pdf(223.93 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

This paper analyzes measurements of paging activity from several different versions of UNIX. We set out to characterize paging activity by first taking measurements of it, and then writing programs to analyze it. In doing so, we were interested in answering several questions:1. What is the magnitude of paging traffic and how much of I/O system activity is paging related?2. What are the characteristics of paging activity, and how can paging system implementations be tuned to match them?3. How doe ...

18 No parking!: (and other library technology quandaries)

Rick Neal
November 2005 **Proceedings of the 33rd annual ACM SIGUCCS conference on User services SIGUCCS '05**
Publisher: ACM Press
Full text available: 🗋 pdf(902.29 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

How do library systems staff members handle the challenging environment of student use of computers in academic libraries? "Parking" at computers, laptop bandits, tracking computer usage and remotely assessing current computer availability are just a few of the technology related issues that systems staff and librarians wrestle with each day. This presentation will present some creative, home-grown solutions to thorny technology issues that have worked for us and may for you as well.

Keywords: notification, parking, usage statistics

19 Models/measurements of traffic/web systems: Analysis of traffic flow measurements by rate-interval curves

Giada Giorgi, Claudio Narduzzi
October 2006 **Proceedings of the 1st international conference on Performance evaluation methodolgies and tools valuetools '06**
Publisher: ACM Press
Full text available: 🗋 pdf(445.88 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper we propose a method for the analysis of aggregate traffic by means of empirical rate-interval curves obtained from experimental data. The approach is related to the theory of Network Calculus, and is based on an algorithm which is different from the commonly employed approach based on wavelets, although it retains some of its multiresolution features. We present results, obtained both by simulation and in the analysis of real traffic traces, which provide an assessment of the stren ...

Keywords: network calculus, self-similarity, traffic measurement

20 <u>Resource management with hoses: point-to-cloud services for virtual private networks</u>

N. G. Duffield, Pawan Goyal, Albert Greenberg, Partho Mishra, K. K. Ramakrishnan, Jacobus E. van der Merwe

October 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 5

Publisher: IEEE Press

Full text available: <u>pdf(425.44 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

As IP technologies providing both tremendous capacity and the ability to establish dynamic security associations between endpoints emerge, virtual private networks (VPNs) are going through dramatic growth. The number of endpoints per VPN is growing and the communication pattern between endpoints is becoming increasingly hard to predict. Consequently, users are demanding dependable, dynamic connectivity between endpoints, with the network expected to accommodate any traffic matrix, as long as the ...

Keywords: point-to-cloud, point-to-multipoint, quality of service, service level agreements

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1 Facial modeling and animation   ■
Jörg Haber, Demetri Terzopoulos
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(18.15 MB)   Additional Information: full citation, abstract

> In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

2 IS '97: model curriculum and guidelines for undergraduate degree programs in   ■
information systems
Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker
December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(7.24 MB)   Additional Information: full citation, citings

3 Link and channel measurement: A simple mechanism for capturing and replaying   ■
wireless channels
Glenn Judd, Peter Steenkiste
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**
Publisher: ACM Press
Full text available: 📄 pdf(6.06 MB)   Additional Information: full citation, abstract, references, index terms

> Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key

advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

4 Estimation of the cell loss ratio in ATM networks with a fuzzy system and application to measurement-based call admission control
Brahim Bensaou, Shirley T. C. Lam, Hon-Wai Chu, Danny H. K. Tsang
August 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 4
Publisher: IEEE Press
Full text available: pdf(249.06 KB)   Additional Information: full citation, references, citings, index terms

Keywords: ATM, call admission control, cell loss ratio, fuzzy logic

5 Information systems outsourcing: a survey and analysis of the literature
Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka
November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

6 Bibliography of recent publication in computer networking
July 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(2.53 MB)   Additional Information: full citation, index terms

7 Technical correspondence
CORPORATE Tech Correspondence
August 1989 **Communications of the ACM**, Volume 32 Issue 8
Publisher: ACM Press
Full text available: pdf(1.32 MB)   Additional Information: full citation, references, citings, index terms

8 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)
September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press
Full text available: pdf(1.98 MB)   Additional Information: <u>full citation</u>, <u>index terms</u>

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9 <u>Fast detection of communication patterns in distributed executions</u>
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: pdf(4.21 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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10 <u>Special issue: AI in engineering</u>
D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: pdf(8.79 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

> The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

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11 <u>Localization: VOR base stations for indoor 802.11 positioning</u>
Dragoş Niculescu, Badri Nath
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04**
Publisher: ACM Press
Full text available: pdf(732.15 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> Angle of arrival (AOA) has previously been used for outdoor positioning in aircraft navigation and for services like E911. For indoor positioning, the best schemes to date rely either on extensive infrastructure, or on sampling of the signal strength on a dense grid, which is subject to changes in the environment, like furniture, elevators, or people. We present an indoor positioning architecture that does not require a signal strength map, simply requiring the placement of special VOR base stat ...

> **Keywords:** 802.11, AOA, VOR, VORBA, indoor positioning, ranging

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12 <u>Article abstracts with full text online: A brief survey of program slicing</u>
Baowen Xu, Ju Qian, Xiaofang Zhang, Zhongqiang Wu, Lin Chen
March 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(535.10 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> Program slicing is a technique to extract program parts with respect to some special computation. Since Weiser first proposed the notion of slicing in 1979, hundreds of papers

have been presented in this area. Tens of variants of slicing have been studied, as well as algorithms to compute them. Different notions of slicing have different properties and different applications. These notions vary from Weiser's syntax-preserving static slicing to amorphous slicing which is not syntax-preserving, an ...

Keywords: debugging, dependence analysis, pointer analysis, program analysis, program slicing

13 A multiple track animator system for motion synchronization (abstract only)
D. Fortin, J. F. Lamy, D. Thalmann
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB)   Additional Information: full citation, abstract

MUTAN (MUltiple Track ANimator) is an interactive system for independently animating three-dimensional graphical objects. MUTAN can synchronize different motions; it is also a good tool for synchronizing motion with sound, music, light or smell. To indicate moments in time, marks are associated with appropriate frame numbers. MUTAN enables the marks to be manipulated. An animator can also adjust one motion without modifying the others. To make this possible, MUTAN handles several tracks at a tim ...

14 Design, analysis, and implementation of DVSR: a fair high-performance protocol for packet rings
Violeta Gambiroza, Ping Yuan, Laura Balzano, Yonghe Liu, Steve Sheafor, Edward Knightly
February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1
Publisher: IEEE Press
Full text available: pdf(671.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

The Resilient Packet Ring (RPR) IEEE 802.17 standard is a new technology for high-speed backbone metropolitan area networks. A key performance objective of RPR is to simultaneously achieve high utilization, spatial reuse, and fairness, an objective not achieved by current technologies such as SONET and Gigabit Ethernet nor by legacy ring technologies such as FDDI. The core technical challenge for RPR is the design of a bandwidth allocation algorithm that dynamically achieves these three properti ...

Keywords: dynamic bandwidth allocation, fairness, metro rings, scheduling

15 A survey of rollback-recovery protocols in message-passing systems
E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson
September 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 3
Publisher: ACM Press
Full text available: pdf(549.68 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This survey covers rollback-recovery techniques that do not require special language constructs. In the first part of the survey we classify rollback-recovery protocols into *checkpoint-based* and *log-based*. *Checkpoint-based* protocols rely solely on checkpointing for system state restoration. Checkpointing can be coordinated, uncoordinated, or communication-induced. *Log-based* protocols combine checkpointing with logging of nondeterministic events, encoded in tuples call ...

Keywords: message logging, rollback-recovery

16 Measuring system normality

Mark Burgess, Hårek Haugerud, Sigmund Straumsnes, Trond Reitan
May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2
Publisher: ACM Press

Full text available: pdf(794.43 KB)   Additional Information: full citation, abstract, references, citings, index terms

A comparative analysis of transaction time-series is made, for light to moderately loaded hosts, motivated by the problem of anomaly detection in computers. Criteria for measuring the statistical state of hosts are examined. Applying a scaling transformation to the measured data, it is found that the distribution of fluctuations about the mean is closely approximated by a steady-state, maximum-entropy distribution, modulated by a periodic variation. The shape of the distribution, under these con ...

Keywords: Anomaly detection, statistical mechanics

17 The Penn State computing condominium scheduling system

Pawan Agnihotri, Vijay K. Agarwala, Jeffrey J. Nucciarone, Kevin M. Morooney, Chita Das
November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '98**
Publisher: IEEE Computer Society
Full text available: html(72.76 KB)   Additional Information: full citation, abstract, references, citings

The Penn State RS/6000 SP is a uniquely acquired and operated computing facility. This 143 CPU machine, centrally located and jointly owned, is a result of collaboration between academic departments, research groups, and the central academic computing facility. It is the largest on-campus resource at Penn State for meeting the high performance computing needs.Due to the joint ownership structure of the machine, the job scheduling requirements are significantly different from the usual methods of ...

Keywords: IBM RS/6000 SP, job scheduling, load balancing, load leveler, queueing systems

18 Level II technical support in a distributed computing environment

Tim Leehane
September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96**
Publisher: ACM Press
Full text available: pdf(5.73 MB)   Additional Information: full citation, references, index terms

19 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(6.19 MB)   Additional Information: full citation, index terms

20 Technical reports

SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press
Full text available: pdf(5.28 MB)   Additional Information: full citation

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